CONTENTS OF VOLUME 62

1 JULY 2001

Commentary

1 Molecular chaperones and the regulation of neurotransmitter exocytosis
Konrad E. Zinsmaier and Peter Bronk

MOLECULAR AND CELLULAR PHARMACOLOGY

13 Inhibitor of apoptosis-1 (IAP-1) expression and apoptosis in non-small-cell lung cancer cells exposed to gemcitabine
Esther Bandala, Magali Espinosa, Vilma Maldonado and Jorge Meléndez-Zajgla

21 Functional analysis of the phenobarbital-responsive unit in rat *CYP2B2*
Siqing Liu, Ilia Rivera-Rivera, Andrew J. Bredemeyer and Byron Kemper

29 Dietary taurine manipulations in aged male Fischer 344 rat tissue: taurine concentration, taurine biosynthesis, and oxidative markers
Bärbel Eppler and Ralph Dawson, Jr.

41 Testosterone-mediated modulation of HERG blockade by proarrhythmic agents
Yaroslav M. Shuba, Vadim E. Degtiar, Vadim N. Osipenko, Valeri G. Naidenov and Raymond L. Woosley

51 Role of cellular zinc in programmed cell death: temporal relationship between zinc depletion, activation of caspases, and cleavage of Sp family transcription factors
Fabrice Chimienti, Michel Seve, Sandrine Richard, Jacques Mathieu and Alain Favier

63 A comparative study of cellular and molecular pharmacology of doxorubicin and MEN 10755, a disaccharide analogue
Mario Bigioni, Carmela Salvatore, Angela Bullo, Daniela Bellarosa, Elisabetta Iafrate, Fabio Animati, Giovanni Capranico, Cristina Goso, Carlo Alberto Maggi, Graziella Pratesi, Franco Zunino and Stefano Manzini

71 Induction of cytochrome P450 2B1 by pyrethroids and in primary rat hepatocyte cultures
Anne F. Heder, Karen I. Hirsch-Ernst, Daniel Bauer, Georg F. Kahl and Herbert Desel

CHEMOTHERAPY AND METABOLIC INHIBITORS

81 Selective active site inhibitors of human lactate dehydrogenases A_4, B_4, and C_4
Yue Yu, Jason A. Deck, Lucy A. Hunsaker, Lorraine M. Deck, Robert E. Royer, Erwin Goldberg and David L. Vander Jagt

91 Implications of selective type II IMP dehydrogenase (IMPDH) inhibition by the 6-ethoxycarbonyl-3,3-disubstituted-1,5-diazabicyclo[3.1.0]hexane-2,4-diones on tumor cell death
Betsy J. Barnes, Ann E. Eakin, Robert A. Izydore and Iris H. Hall

101 Imbalanced DNA synthesis induced by cytosine arabinoside and fludarabine in human leukemia cells
Giuseppina M.R. Carbone, Carlo V. Catapano and Daniel J. Fernandes

111 Antioxidant effect of flavonoids after ascorbate/Fe^{2+}-induced oxidative stress in cultured retinal cells
Filipe Miguel Areias, A. Cristina Rego, Catarina R. Oliveira and Rosa Maria Seabra

NEUROSCIENCE

119 The effect of aliphatic, naphthenic, and aromatic hydrocarbons on production of reactive oxygen species and reactive nitrogen species in rat brain synaptosome fraction: the involvement of calcium, nitric oxide synthase, mitochondria, and phospholipase A
Oddvar Myhre and Frode Fonnum

129 Effects of the novel cyclosporine derivative PSC833 on glucose metabolism in rat primary cultures of neuronal and glial cells
Fatima Cruz and Armin Wolf

INFLAMMATION AND IMMUNOPHARMACOLOGY

141 Involvement of nuclear factor-kappa B (NF-κB) activation in mitogen-induced lymphocyte proliferation: inhibitory effects of lymphoproliferation by salicylates acting as NF-κB inhibitors
Lucia Cavallini, Maria Angela Francesconi, Franco Zoccarato and Aldolfo Alexandre

15 JULY 2001

Commentary

149 Molecular genetics of nucleoside transporters in *Leishmania* and African trypanosomes
Scott M. Landfear

Rapid Communication

157 Major roles of prostanoid receptors IR and EP_3 in endotoxin-induced enhancement of pain perception
Akinori Ueno, Hideki Matsumoto, Hiroaki Naraba, Yuri Ikeda, Fumitaka Ushikubi, Toshiyuki Matsuoka, Shuh Narumiya, Yukihiko Sugimoto, Atsushi Ichikawa and Sachiko Oh-ishi

MOLECULAR AND CELLULAR PHARMACOLOGY

161 Sex-associated expression of mouse hepatic and renal CYP2B enzymes by glucocorticoid hormones
Kanokwan Jarukamjorn, Tsutomu Sakuma, Makoto Yamamoto, Ayako Ohara and Nobuo Nemoto

171 Modulation by cellular cholesterol of gene transcription via the cyclic AMP response element
Aliya Middleton, David Nury, Susan J. Willington, Liaque Latif, Stephen J. Hill and Bruce Middleton

183 βγ-mediated enhancement of corticotropin-releasing hormone-stimulated adenylyl cyclase activity by activation of γ-aminobutyric $acid_B$ receptors in membranes of rat frontal cortex
Pierluigi Onali and Maria C. Olianas

CHEMOTHERAPY AND METABOLIC INHIBITORS

191 Troglitazone quinone formation catalyzed by human and rat CYP3A: an atypical CYP oxidation reaction
Kan He, Thomas F. Woolf, Erick K. Kindt, Ann E. Fielder and Rasmy E. Talaat

199 Influences of glutathione on anionic substrate efflux in tumour cells expressing the multidrug resistance-associated protein, MRP1
Tanya Bagrij, Antonios Klokouzas, Stephen B. Hladky and Margery A. Barrand

207 Cytochrome P450 CYP1B1 protein expression: a novel mechanism of anticancer drug resistance
Morag C.E. McFadyen, Howard L. McLeod, Fiona C. Jackson, William T. Melvin, Johannes Doehmer and Graeme I. Murray

213 Activation pathways of 5-fluorouracil in rat organs and in PC12 cells
Laura Mascia and Piero Luigi Ipata

HORMONES AND GROWTH FACTORS

219 Enzymatic activation of autotaxin by divalent cations without EF-hand loop region involvement
Jangsoon Lee, In Duk Jung, Suk Woo Nam, Tim Clair, Eui Myung Jeong, Sung Yeo Hong, Jeung Whan Han, Hyang Woo Lee, Mary L. Stracke and Hoi Young Lee

225 Cyclic GMP excretion blocked by isatin administration under conditions of fluid overload
Alexei Medvedev, Agnes Adamik, Vivette Glover and Gyula Telegdy

CARDIOVASCULAR AND PULMONARY PHARMACOLOGY

229 Prostaglandin D_2 receptor-mediated desensitization of the α isoform of the human thromboxane A_2 receptor
John F. Foley, Leanne P. Kelley and B. Therese Kinsella

241 Radical-scavenging and iron-chelating properties of carvedilol, an antihypertensive drug with antioxidant activity
Karl Oettl, Joachim Greilberger, Klaus Zangger, Ernst Haslinger, Gilbert Reibnegger and Günther Jürgens

GASTROINTESTINAL AND RENAL PHARMACOLOGY

249 Expression and induction of cytochrome P450s in rabbit parotid glands
Yasushi Kikuta, Emi Kusunose and Masamichi Kusunose

255 Oxidation of hydrogen sulfide and methanethiol to thiosulfate by rat tissues: a specialized function of the colonic mucosa
Julie Furne, John Springfield, Thomas Koenig, Eugene DeMaster and Michael D. Levitt

1 AUGUST 2001

Commentary

261 Protection against ischemia: a physiological function of the renin-angiotensin system
Jean-Michel Achard, Albert Fournier, Hakim Mazouz, Vicente J. Caride, Paul L. Penar, Leonard A. Fernandez

MOLECULAR AND CELLULAR PHARMACOLOGY

273 Effects of selected polychlorinated biphenyl (PCB) congeners on hepatic glutathione, glutathione-related enzymes, and selenium status: implications for oxidative stress

Timothy P. Twaroski, Michelle L. O'Brien and Larry W. Robertson

283 Protection against glutamate toxicity through inhibition of the p44/42 mitogen-activated protein kinase pathway in neuronally differentiated P19 cells

Elfrida R. Grant, Monica A. Errico, Stuart L. Emanuel, Daniel Benjamin, Michael K. McMillian, Scott A. Wadsworth, Robert A. Zivin and Zhong Zhong

297 Hepatic distribution of a phosphorothioate oligodeoxynucleotide within rodents following intravenous administration

Mark J. Graham, Stanley T. Crooke, Kristina M. Lemonidis, Hans J. Gaus, Michael V. Templin and Rosanne M. Crooke

307 Identification of a novel C-terminal domain involved in the negative function of the rainbow trout Ah receptor nuclear translocator protein isoform a (rtARNTa) in Ah receptor-mediated signaling

Brian Necela and Richard S. Pollenz

319 Control of survival of proliferating L1210 cells by soluble guanylate cyclase of p44/42 mitogen-activated protein kinase modulators

Flavio Flamigni, Annalisa Facchini, Ivana Stanic, Benedetta Tantini, Francesca Bonavita and Claudio Stefanelli

329 Critical implication of transmembrane Phe310, possibly in conjunction with Trp279, in the rat gonadotropin-releasing hormone receptor activation

Stéphanie Chauvin, Marcel Hibert, Annette Bérault and Raymond Counis

CHEMOTHERAPY AND METABOLIC INHIBITORS

335 Action of the novel antioxidants 4GBE43 and 2BBE43 against lipid peroxidation

Tomonobu Ezure, Toshiji Kanayama and Chikao Nishino

341 Structure-activity relationships and inhibitory effects of various purine derivatives on the *in vitro* growth of *Plasmodium falciparum*

Leonie Harmse, Robyn van Zyl, Nathanael Gray, Peter Schultz, Sophie Leclerc, Laurent Meijer, Christian Doerig, Ivan Havlik

NEUROSCIENCE

349 Molecular cloning and pharmacological characterization of the rat sigma$_1$ receptor

Jianfeng Mei and Gavril W. Pasternak

HORMONES AND GROWTH FACTORS

357 Inducible nitric oxide synthase in rat neutrophils: role of insulin

Graziela A. Cerchiaro, Cristóforo Scavone, Simone Texeira and Paulina Sannomiya

STRUCTURAL BIOLOGY

363 Inhibitory effect of quinolone antimicrobial and nonsteroidal anti-inflammatory drugs on a medium chain acyl-CoA synthetase

Fumiyo Kasuya, Masato Hiasa, Yuichi Kawai, Kazuo Igarashi and Miyoshi Fukui

INFLAMMATION AND IMMUNOPHARMACOLOGY

369 Intestinal absorption of rutin in free and conjugated forms

Wilfried Andlauer, Claudia Stumpf and Peter Fürst

GASTROINTESTINAL AND RENAL PHARMACOLOGY

375 Differential effects of isoflurane and halothane on the induction of heat shock proteins

Akira Yamasaki, Toru Takahashi, Tsutomu Suzuki, Tadao Fujiwara, Masahisa Hirakawa, Emiko Ohmori and Reiko Akagi

383 Functional and toxicological characteristics of isolated renal mitochondria: impact of compensatory renal growth

Lawrence H. Lash, David A. Putt, Stanley J. Horky III and Rudolfs K. Zalup

397 Additions and corrections

15 AUGUST 2001

Commentary

401 Neurotransmitters and apoptosis in the developing brain

Chrysanthy Ikonomidou, Petra Bittigau, Christian Koch, Kerstin Genz, Friederike Hoerster, Ursula Felderhoff-Mueser, Tatyana Tenkova, Krikor Dikranian and John W. Olney

MOLECULAR AND CELLULAR PHARMACOLOGY

407 Oxidation of prostaglandin H_2 and prostaglandin H_2 analogues by human cytochromes P450: analysis of ω-side chain hydroxy metabolites and four steroisomers of 5-hydroxyprostaglandin I_1 by mass spectrometry

Ernst H. Oliw, Katarina Stark and Johan Bylund

417 Verapamil-stimulated glutathione transport by the multidrug resistance-associated protein (MRP1) in leukaemia cells

Karen V. Cullen, Ross A. Davey and Mary W. Davey

425 Inhibition by guanosine cyclic monophosphate (cGMP) analogues of uptake of [^{3}H]3′,5′-cGMP without stimulation of ATPase activity in human erythrocyte inside-out vesicles

Emmanuel Boadu, Svanhild Vaskinn, Elisabeth Sundkvist, Ragnhild Jaeger and Georg Sager

431 Agonist-induced functional desensitization of recombinant human 5-HT2 receptors expressed in CHO-K1 cells

Richard H. P. Porter, Craig S. Malcolm, Nicola H. Allen, Helen Lamb, Dean F. Revell and Malcolm J. Sheardown

439 Effect of metformin on fatty acid and glucose metabolism in freshly isolated hepatocytes and on specific gene expression in cultured hepatocytes

Jean-Pierre Fulgencio, Claude Kohl, Jean Girard and Jean-Paul Pégorier

447 μ Opioid receptor-mediated G-protein activation by heroin metabolites: evidence for greater efficacy of 6-monoacetylmorphine compared with morphine

Dana E. Selley, Cheng-Chun Cao, Tammy Sexton, Jennifer A. Schwegel, Thomas J. Martin and Steven R. Childers

457 Effect of lipopolysaccharide (LPS)-evoked host defense activation on hepatic microsomal formation and reduction of sulfamethoxazole hydroxylamine in the rat

Alastair E. Cribb, Timothy McQuaid and Kenneth W. Renton

CHEMOTHERAPY AND METABOLIC INHIBITORS

461 Involvement of NADPH: cytochrome P450 reductase in the activation of indoloquinone EO9 to free radical and DNA damaging species

Susan M. Bailey, Alex D. Lewis, Laurence H. Patterson, Geoff R. Fisher, Richard J. Knox and Paul Workman

469 Inhibition of export of fibroblast growth factor-2 (FGF-2) from the prostate cancer cell lines PC3 and DU145 by Anvirzel and its cardiac glycoside component, oleandrin

Judith A. Smith, Timothy Madden, Mary Vijjeswarapu and Robert A. Newman

NEUROSCIENCE

473 6-Hydroxydopamine-induced nuclear factor-kappaB activation in PC12 cells

David Blum, Sakina Torch, Marie-France Nissou and Jean-Marc Verna

CARDIOVASCULAR AND PULMONARY PHARMACOLOGY

483 Inhibition of stress-activated protein kinase in the ischemic/reperfused heart: role of magnesium tanshinoate B in preventing apoptosis

Kathy K. W. Au-Yeung, Da-yuan Zhu, Karmin O and Yaw L. Siow

INFLAMMATION AND IMMUNOPHARMACOLOGY

495 Regulatory roles of adenylate cyclase and cyclic nucleotide phosphodiesterases 1 and 4 in interleukin-13 production by activated human T cells

Naoko Kanda and Shinichi Watanabe

GASTROINTESTINAL AND RENAL PHARMACOLOGY

509 Attenuation of liver normothermic ischemia-reperfusion injury by preservation of mitochondrial functions with S-15176, a potent trimetazidine derivative

Aziz Elimadi, Rosa Sapena, Abdellatif Settaf, Herve Le Louet, Jean-Paul Tillement and Didier Morin

1 SEPTEMBER 2001

Commentary

517 Fatty acid amide hydrolase: biochemistry, pharmacology, and therapeutic possibilities for an enzyme hydrolizing anandamide, 2-arachidonoylglycerol, palmitoylethanolamide, and oleamide

Christopher J. Fowler, Kent-Olov Jonsson, and Gunnar Tiger

MOLECULAR AND CELLULAR PHARMACOLOGY

527 Effects of (−)-epigallocatechin-3-gallate, the main component of green tea, on the cloned rat brain Kv1.5 potassium channels

Bok Hee Choi, Do Sik Min, Shin Hee Yoon, Duck-Joo Rhee, Yang-Hyeok Jo, Myung-Suk Kim, and Sang June Hahn

537 Regulation of agonist binding to rat ET_B receptors by cations and GTPγS

Francesca Ceccarelli, Laura Giusti, Gianni Bigini, Barbara Costa, Dante Grilloti, Erika Fiumalbi, Antonio Lucacchini, and Maria Rosa Mazzoni

547 Shortcuts in genome-scale cancer pharmacology research from multivariate analysis of the National Cancer Institute gene expression database

Giuseppe Musumarra, Danielle F. Condorelli, Salvatore Scire, and Alessandro S. Costa

555 Potential application of plant lipid transfer proteins for drug delivery

Christine Pato, Marc Le Borgne, Guillaume Le Baut, Patrice Le Pape, Didier Marion, and Jean-Paul Douliez

561 The absence of stereoselective P-glycoprotein- and multidrug resistance-associated protein-mediated transport of daunorubicin

Chatchanok Loetchutinat, Christine Heywang, Waldemar Priebe, and Arlette Garnier-Suillerot

CHEMOTHERAPY AND METABOLIC INHIBITORS

569 Enhanced activity of antisense phosphorothioate oligos against *Leishmania* amasitgotes: augmented uptake of oligo, ribonuclease H activation, and efficient target intervention under altered growth conditions

Manjari Mishra, Johanna M. Porter-Kelley, Pramod K. Singh, Jabbar R. Bennett, and Gautam Chaudhuri

581 AP-1 activation and altered AP-1 composition in association with increased phosphorylation and expression of specific Jun and Fos family proteins induced by vinblastine in KB-3 cells

April Berry, Mary Goodwin, Cindy L. Moran, and Timothy C. Chambers

593 Suppression of c-*myc* expression and c-Myc function in response to sustained DNA damage in MCF-7 breast tumor cells

Karen J. Magnet, Michael S. Orr, John L. Cleveland, Carlos Rodriguez-Galindo, Hui Yang, Chunying Yang, Yong-Mei Di, Pramod T. Jain, and David A. Gewirtz

603 S phase dependence and involvement of NF-kappaB activating kinase to NF-kappaB activation by camptothecin

Yvette Habraken, Bernard Piret, and Jacques Piette

GENE EXPRESSION AND DEVELOPMENT

617 Pulmonary CYP1A1 and CYP1A2 levels and activities in adult male and female offspring of rats exposed during gestation and lactation to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin

Michael M. Iba and Jacqueline Fung

627 Delivery of cholesteryl-conjugated phosphorothioate oligodeoxynucleotides to Kupffer cells by lactosylated low-density lipoprotein

Martin K. Bijsterbosch, Muthiah Manoharan, Rick Dorland, Ingrid H.E. Waarlo, Erik A.L. Biessen, and Theo J.C. van Berkel

635 A study of the expression of the xenobioticmetabolising cytochrome P450 proteins and of testosterone metabolism in bovine liver

Susila Sivapathasundaram, Paraskevi Magnisalik, Nick G. Coldham, Laurence C. Howells, Maurice J. Sauer, and Costas Ioannides

15 SEPTEMBER 2001

Commentary

657 Chemoprotection from p53-dependent apoptosis: potential clinical applications of the p53 inhibitors

Elena A. Komorova and Andrei V. Gudkov

MOLECULAR AND CELLULAR PHARMACOLOGY

669 Identification of a 43-kDa protein in human liver cytosol that binds to the 3′-untranslated region of CYP2A6 mRNA

James Gilmore, Francesca Rotondo, Anne-Marie Pelletier, Jonathan LaMarre, Moulay Alaoui-Jamali and Gordon M. Kirby

679 Inhibition of extracellular Ca^{2+} entry by YC-1, an activator of soluble guanylyl cyclase, through a cyclic GMP-independent pathway in rat neutrophils

Jih-Pyang Wang, Ling-Chu Chang, Li-Jiau Huang and Sheng-Chu Kuo

685 Comparison of the mutant frequencies and mutation spectra of three non-genotoxic carcinogens, oxazepam, phenobarbital, and Wyeth 14,643 at the λc*II* locus in the Big Blue® transgenic mice

Vijaypreet K. Singh, Loga Ganesh, Michael L. Cunningham and Barbara S. Shane

693 *MDR*1 bicistronic vectors: analysis of selection stringency, amplified gene expression, and vector stability in cell lines

Susan E. Kane, Linda Matsumoto, Marianne Z. Metz, Cecile A. Donohue, Robert G. Lingeman, Sharon W. Lin and James H. Doroshow

705 *tert*-Butyl hydroperoxide-induced lipid signaling in hepatocytes: involvement of glutathione and free radicals

César Martín, Rosa Martínez, Rosaura Navarro, José Ignacio Ruiz-Sanz, Mercedes Lacort and Begoña Ruiz-Larrea

713 Relationships between non-occupational cadmium exposure and expression of nine cytochrome P450 forms in human liver and kidney cortex samples

Jason R. Baker, Soisungwan Satarug, Paul E.B. Reilly, Robert J. Edwards, Noritaka Ariyoshi, Tetsuya Kamataki, Michael R. Moore and David J. Williams

723 Differential signalling of both wild-type and Thr-^{343}Arg dopamine D_{2short} receptor by partial agonists in a G-protein-dependent manner

Petrus J. Pauwels, Stéphanie Tardif and Françis C. Colpaert

733 Salvicine, a novel DNA topoisomerase II inhibitor, exerting its effects by trapping enzyme–DNA cleavage complexes

Ling-hua Meng, Jin-shen Zhang and Jian Ding

743 Oxidative stress in rheumatoid arthritis leukocytes: suppression by rutin and other antioxidants and chelators

Elena A. Ostrakaovitch and Igor B. Afanas'ev

CHEMOTHERAPY AND METABOLIC INHIBITORS

747 Suppression of cytokine production and neural cell death by the anti-inflammatory alkaloid cepharanthine: a potential agent against HIV-1 encephalopathy

Mika Okamoto, Minoru Ono and Masanori Baba

755 Antitumor effects of ajulemic acid (CT3), a synthetic non-psychoactive cannabinoid

Lawrence D. Recht, Rebecca Salmonsen, Ronald Rosetti, Tai Jang, George Pipia, Tomacz Kubiatowski, Pusha Karim, Alonzo H. Ross, Robert Zurier, N. Scott Litofsky and Sumner Burstein

765 Effects of miltefosine on various biochemical parameters in a panel of tumor cell lines with different sensitivities

Maria Rybczynska, Martin Spitaler, Norbert G. Knebel, Günther Boeck, Hans Grunicke and Johann Hofmann

773 P450 interaction with farnesyl-protein transferase inhibitors Metabolic stability, inhibitory potency, and P450 binding spectra in human liver microsomes

Masato Chiba, Cuyue Tang, William E. Neway, Theresa M. Williams, S. Jane Desolms, Christopher J. Dinsmore, John S. Wai and Jiunn H. Lin

GENE EXPRESSION AND DEVELOPMENT

777 Quantification and cellular localization of expression in human skin of genes encoding flavin-containing monooxygenases and cytochromes P450

Azara Janmohamed, Colin T. Dolphin, Ian R. Phillips and Elizabeth A. Shephard

INFLAMMATION AND IMMUNOPHARMACOLOGY

787 Oxidant-mediated lung epithelial cell tolerance: the role of intracellular glutathione and nuclear factor-kappaB

Irfan Rahman, Brigitte Mulier, Peter S. Gilmour, Tammy Watchorn, Kenneth Donaldson, Peter K. Jeffrey and William MacNee

795 Inhibition of inflammatory cytokine production and lymphocyte proliferation by structurally different sesquiterpene lactones correlates with their effect on activation of NF-κB

Egon Koch, Christoph A. Klaas, Peter Rüngeler, Victor Castro, Gerardo Mora, Walter Vichnewski and Irmgard Merfort

CARDIOVASCULAR AND PULMONARY PHARMACOLOGY

803 Increase in hepatic expression of SREBP-2 by gemfibrozil administration to rats

Núria Roglans, Cristina Peris, Juan C. Verd, Marta Alegret, Manuel Vázquez, Rosa M. Sánchez and Juan C. Laguna

1 OCTOBER 2001

Commentary

811 Antiproliferative prostaglandins and the MRP/GS-X pump role in cancer immunosuppression and insight into new strategies in cancer gene therapy

Paulo Ivo Homem de Bittencourt, Jr. and Rui Curi

Molecular and Cellular Pharmacology

821 Mechanism of apoptosis in HL-60 cells induced by n-3 and n-6 polyunsaturated fatty acids

Kayo Arita, Hirotsugu Kobuchi, Toshihiko Utsumi, Yoshiki Takehara, Jitsuo Akiyama, Alan A. Horton and Kozo Utsumi

829 Apparent capacity of cardiac muscarinic receptors for different radiolabeled antagonists

Chi Shing Sum, Norman Pyo and James W. Wells

853 Metabolic alterations by clofibric acid in the formation of molecular species of phosphatidylcholine in rat liver

Hiroki Mizuguchi, Naomi Kudo and Yoichi Kawashima

863 Effect of tributylin chloride on the release of calcium ion from intracellular calcium stores in rat hepatocytes

Toru Kawanishi, Takehito Kiuchi, Hiroki Asoh, Rie Shibayama, Hiroshi Kawai, Hisayuki Ohata, Kazutaka Momose and Takao Hayakawa

873 Requirement for GSH in recycling of ascorbic acid in endothelial cells

James M. May, Zhi-chao Qu and Xia Li

883 Interaction of azimilide with neurohumoral and channel receptors

Robert R. Brooks, Schwe Fang Pong, Nicholas J. Izzo, Thomas J. Moorehead, Murali Gopalakrishnan and David J. Triggle

893 Early effects of AZT on mitochondrial functions in the absence of mitochondrial DNA depletion in rat myotubes

Ornella Cazzalini, Maria C. Lazzé, Luisa Iamele, Lucia A. Stivala, Livia Bianchi, Patrizia Vaghi, Antonia Cornaglia, Alberto Calligaro, Daniela Curti, Andrea Alessandrini, Ennio Prosperi and Vanio Vannini

903 Inhibitory effects of helenalin and related compounds on 5-lipoxygenase and leukotriene C_4 synthase in human blood cells

Susanne Tornhamre, Thomas J. Schmidt, Barbro Näsman-Glaser, Inger Ericsson and Jan Åke Lindgren

913 Role of G-protein availability in differential signaling by alpha 2-adrenoceptors

Johnny Nasman, Jyrki P. Kukkonen, Sylwia Ammoun and Karl E. O. Akerman

923 Effects of tolbutamide and *N*-benzoyl-D-phenylalanine (NBDP) on the regulation of $[Ca^{2+}]_i$ oscillations in mouse pancreatic islets

Sigurd Lenzen and Thomas Peckmann

929 Altering behavioral responses and dopamine transporter protein with antisense peptide nucleic acids

Beth M. Tyler-McMahon, Jennifer A. Stewart, Joshua Jackson, M. D. Bitner, Abdul Fauq, Daniel J. McCormick and Elliott Richelson

Chemotherapy and Metabolic Inhibitors

933 Pharmacokinetic parameters and mechanisms of inhibition of rat type 1 and 2 steroid 5α-reductases: determinants for different *in vivo* activities of GI198745 and finasteride in the rat

J. Darren Stuart, Frank W. Lee, Deborah Simpson Noel, Sue K. Kadwell, Laurie K. Overton, Christine R. Hoffman, Thomas A. Kost, Timothy K. Tippin, Russell L. Yeager, Kenneth W. Batchelor and H. Neal Bramson

Neuroscience

943 Characterization of ginseng saponin ginsenoside-Rg_3 inhibition of catecholamine secretion in bovine adrenal chromaffin cells

Eiichi Tachikawa, Kenzo Kudo, Masaki Nunokawa, Takeshi Kashimoto, Eiji Takahashi and Shuji Kitagawa

Hormones and Growth Factors

953 Transcriptional activities of estrogen receptor alpha and beta in yeast properties of raloxifene

Elisabeth Jisa, Eva Dornstauder, Sumito Ogawa, Sathoshi Inoue, Masami Murumatsu and Alois Jungbauer

Inflammation and Immunopharmacology

963 Effects of *Ginkgo biloba* extract (EGb 761) and quercetin on lipopolysaccharide-induced signaling pathways involved in the release of tumor necrosis factor-α

Teri L. Wadsworth, Tasha L. McDonald and Dennis R. Koop

15 OCTOBER 2001

Commentary

975 Atomic force microscopy as a novel pharmacological tool

Ricardo de Souza Pereira

Molecular and Cellular Pharmacology

985 Cellular pharmacology of cerulenin analogs that inhibit protein palmitoylation

Mackenzie L. De Vos, David S. Lawrence and Charles D. Smith

997 Sequestration and phosphorylation of the prostaglandin E_2 EP_4 receptor: dependence on the C-terminal tail

Deborah Slipetz, Stephanie Buchanan, Cameron Mackereth, Natalie Brewer, Vanessa Pellow, Chuan-ming Hao, Mohammed Adam, Mark Abramovitz and Kathleen M. Metters

1013 Cisplatin-induced apoptosis by translocation of endogenous Bax in mouse collecting duct cells

Ryang Hwa Lee, Jin Mi Song, Mi Young Park, Soo Kyung Kang, Yong Keun Kim and Jin Sup Jung

1025 Induction of CYP2B1/2 and nicotine metabolism by ethanol in rat liver but not rat brain

Kerri A. Schoedel, Edward M. Sellers and Rachel F. Tyndale

1037 Roles of long chain fatty acids and carnitine in mitochondrial membrane permeability transition

Takashi Furuno, Tomoko Kanno, Kayo Arita, Maki Asami, Toshihiko Utsumi, Yoshinori Doi, Masayasu Inoue and Kozo Utsumi

1047 Domains of the parathyroid hormone (PTH) receptor required for regulation by G protein-coupled receptor kinases (GRKs)

Patrick J. Flannery and Robert J. Spurney

1059 Catalytic inhibition of human DNA topoisomerase IIα by hypericin, a napthodianthrone from St. John's wort (*Hypericum perforatum*)

Katherine A. Peebles, Ronda K. Baker, Ebba U. Kurz, B. J. Schneider and David J. Kroll

1071 Inhibition of phosphoenolpyruvate carboxykinase (PEPCK) gene expression by troglitazone: a peroxisome proliferator-activated receptor γ (PPARγ)-independent, antioxidant-related mechanism

Gerald F. Davies, Ramji L. Khandelwal, Lingyun Wu, Bernhard H. J. Juurlink and William J. Roesler

1081 Stimulation of gap junctional intercellular communication by thalidomide analogs in human fetal skin fibroblasts (HFFF2) and in rat liver epithelial cells (WB-F344)

Duygu Onat, Wilhelm Stahl and Helmut Sies

Chemotherapy and Metabolic Inhibitors

1087 Differential regulation of phosphatidylserine externalization and DNA fragmentation by caspases in anticancer drug-induced apoptosis of rat mammary adenocarcinoma MTLn3 cells

Merei Huigsloot, Ine B. Tijdens, Gerard J. Mulder and Bob van de Water

1099 The cytostatic- and differentiation-inducing effects of cyclopentenyl cytosine on neuroblastoma cell lines

Jörgen Bierau, Albert H. van Gennip, Jozien Helleman, and André B. P. van Kuilenburg

Hormones and Growth Factors

1107 Stimulation of ERK2 by taurine with enhanced alkaline phosphatase activity and collagen synthesis in osteoblast-like UMR-106 cells

Sungyoun Park, Harriet Kim and Sung-Jin Kim

Gene Expression and Development

1113 Involvement of a post-transcriptional mechanism in the inhibition of *CYP1A1* expression by resveratrol in breast cancer cells

Jeong-Eun Lee and Stephen Safe

Inflammation and Immunopharmacology

1125 Participation of Ca^{2+}/calmodulin during activation of rat neutrophils by polychlorinated biphenyls

Jesus Olivero and Patricia E. Ganey

1133 Further evidence for the involvement of inhibition of cell proliferation and development in thymic and splenic atrophy induced by the peroxisome proliferator perfluoroctanoic acid in mice

Qian Yang, Yi Xie, Anna Messing Eriksson, B. Dean Nelson and Joseph W. DePierre

CARDIOVASCULAR AND PULMONARY PHARMACOLOGY

1141 Role of tumor necrosis factor-alpha in endotoxin-induced lung parenchymal hyporesponsiveness in mice
Laura Brandolini, Assunta Intilangelo, Gianfranco Caselli and Riccardo Bertini

GASTROINTESTINAL AND RENAL PHARMACOLOGY

1145 The impact of different flavonoid classes on colonic Cl^- secretion in rats
Rainer Cermak, Zoran Vujicic, Erwin Scharrer and Siegfried Wolfram

1 NOVEMBER 2001

Commentary

1153 Taming platelets with cyclic nucleotides
Ulrike R. Schwarz, Ulrich Walter and Martin Eigenthaler

MOLECULAR AND CELLULAR PHARMACOLOGY

1163 Inhibition of human mast cell activation with the novel selective adenosine A_{2B} receptor antagonist 3-isobutyl-8-pyrrolidinoxanthine (IPDX)
Igor Feoktistov, Emily M. Garland, Anna E. Goldstein, Dewan Zeng, Luiz Belardinelli, Jack N. Wells and Italo Biaggioni

1175 Effects of purified green and black tea polyphenols on cyclooxygenase- and lipoxygenase-dependent metabolism of arachidonic acid in human colon mucosa and colon tumor tissues
Jungil Hong, Theresa J. Smith, Chi-Tang Ho, David A. August and Chung S. Yang

1185 Effects of naturally occurring prenylated flavonoids on enzymes metabolizing arachidonic acid: Cyclooxygenases and lipoxygenases
Yeon Sook Chi, Hyon Gun Jong, Kun Ho Son, Hyeun Wook Chang, Sam Sik Kang and Hyun Pyo Kim

1193 Molecular cloning and functional characterization of murine cysteinyl-leukotriene 1 ($CysLT_1$) receptors
Viviane Martin, Nicole Sawyer, Rino Stocco, David Unett, Michael R. Lerner, Mark Abramovitz and Colin D. Funk

1201 Metabolism of tirapazamine by multiple reductases in the nucleus
Yvette M. Delahoussaye, James W. Evans and J. Martin Brown

1211 Regulation of human β_1-adrenergic receptors and their mRNA in neuroepithelioma SK-N-MC cells: Effects of agonist, forskolin, and protein kinase A
Suleiman W. Bahouth, Kevin M. Sowinski and John J. Lima

1221 Reduction in dermal fibrosis in the tight-skin (Tsk) mouse after local application of halofuginone
Mark Pines, Avraham Domb, Meir Ohana, Jacob Inbar, Olga Genina, Rosaly Alexiev and Arnon Nagler

1229 Inhibition of depolarization-induced [^{3}H] noradrenaline release from SH-SY5Y human neuroblastoma cells by some second-generation H_1 receptor antagonists through blockade of store-operated Ca^{2+} channels (SOCs)
Maurizio Taglialatela, Agnese Secondo, Angela Fresi, Barbara Rosati, Anna Pannaccione, Pasqualina Castaldo, Giovanna Giorgio, Enzo Wanke and Lucio Annunziato

1239 Lack of correlation between the observed stability and pharmacological properties of *S*-nitroso derivatives of glutathione and cysteine-related peptides
Jayne M. Tullett, Daryl D. Rees, David E. G. Shuker and Andreas Gescher

CHEMOTHERAPY AND METABOLIC INHIBITORS

1249 Pharmacological preconditioning with doxorubicin: Implications of heme oxygenase-1 induction in doxorubicin-induced hepatic injury in rats
Koji Ito, Hisashi Ozasa, Yoji Nagashima, Kiyokazu Hagiwara and Saburo Horikawa

1257 Novel 6-substituted uracil analogs as inhibitors of the angiogenic actions of thymidine phosphorylase
Robert S. Klein, Michelle Lenzi, Timothy H. Lim, Kylie A. Hotchkiss, Phyllis Wilson and Edward L. Schwartz

NEUROSCIENCE

1265 Protective effect of nimodipine on dichlorvos-induced delayed neurotoxicity in rat brain
Sanjeev Choudhary and Kiran Dip Gill

1273 Morphine-6β-glucuronide and morphine-3-glucuronide, opioid receptor agonists with different potencies
Chris Ulens, Lanning Baker, Anna Ratka, Dieter Waumans and Jan Tytgat

GENE EXPRESSION AND DEVELOPMENT

1283 Influence of dietary zinc deficiency during development on hepatic CYP2C11, CYP2C12, CYP3A2, CYP3A9, and CYP3A18 expression in postpubertal male rats

Zhaoming Xu, Masahiko Kawai, Stelvio M. Bandiera and Thomas K. H. Chang

STRUCTURAL BIOLOGY

1293 Aggregation of insulin by chlorpromazine

Jaya Bhattacharyya and Kali P. Das

INFLAMMATION AND IMMUNOPHARMACOLOGY

1299 Immunomodulatory activity of resveratrol: suppression of lymphocyte proliferation, development of cell-mediated cytotoxicity, and cytokine production

Xiaohua Gao, Yong X. Xu, Nalini Janakiraman, Robert A. Chapman and Subhash C. Guatam

15 NOVEMBER 2001

Commentary

1311 Gene expression microarray analysis in cancer biology, pharmacology, and drug development: progress and potential

Paul A. Clarke, Robert te Poele, Richard Wooster and Paul Workman

MOLECULAR AND CELLULAR PHARMACOLOGY

1337 Impact of the basic amine on the biological activity and intracellular distribution of an aza-anthrapyrazole: BBR 3422

Kai-Ming Chou, A Paul Krapcho and Miles P. Hacker

1345 Co-purification of mitochondrial HSP70 and mature protein disulfide isomerase with a functional rat kidney high-M_r *cysteine S*-conjugate β-lyase

Arthur J.L. Cooper, Jianping Wang, Carlos A. Gartner and Sam A. Bruschi

1355 New 8-hydroxyquinoline and catecholate iron chelators: Influence of their partition coefficient on their biological activity

Christophe Henry, Nafissa Rakba, Daniel Imbert, Fabrice Thomas, Paul Baret, Guy Serratrice, Didier Gaude, Jean-Louis Pierre, Roberta J. Ward, Robert R. Crichton and Gerard Lescoat

1363 Effect of oleamide on Ca^{2+} signaling in human bladder cancer cells

Yuk-Keung Lo, Kwong-Yui Tang, Wen-Neng Chang, Cheng-Hsien Lu, Jin-Shiung Cheng, Kam-Chung Lee, Kang-Ju Chou, Chun-Peng Liu, Wei-Chung Chen, Warren Su, Yee-Ping Law and Chung-Ren Jan

1371 Genotyping of NAD(P)H:quinone oxidoreductase (NQO1) in a panel of human tumor xenografts: relationship between genotype status, NQO1 activity and the response of xenografts to Mitomycin C chemotherapy *in vivo*

Roger M. Phillips, Angelika M. Burger, Heinz-Herbert Fiebig and John A. Double

1379 Potentiation of cadmium-induced cytotoxicity by sulfur amino acid deprivation through activation of extracellular signal-regulated kinase1/2 (ERK1/2) in conjunction with p38 kinase or c-jun N-terminal kinase (JNK): Complete inhibition of the potentiated toxicity by U0126 an ERK1/2 and p38 kinase inhibitor

Moon Ho Son, Keon Wook Kang, Chang Ho Lee and Sang Geon Kim

1391 Up-regulation by clarithromycin of α_1-acid glycoprotein expression in liver and primary cultured hepatocytes

Takafumi Komori, Hirofumi Kai, Kazuki Shimoishi, Koki Kabu, Ayumi Nonaka, Toru Maruyama, Keiji Tamura and Masaki Otagiri

1399 Effects of fibrinogen receptor antagonist GR144053F and aurintricarboxylic acid on platelet activation and degranulation

Marcin Rozalski, Magdalena Boncler, Jacek Golanski and Cezary Watala

NEUROSCIENCE

1409 Blood-brain barrier and neuronal membrane transport of 6-[^{18}F]fluoro-L-DOPA

Randa E. Yee, David W. Cheng, Sung-Cheng Huang, Mohammad Namavari, Nagichettiar Satyamurthy and Jorge R. Barrio

INFLAMMATION AND IMMUNOPHARMACOLOGY

1417 Role of nitric oxide on *in vitro* human eosinophil migration

Sara M. Thomazzi, Heloisa H.A. Ferreira, Nicola Conran, Gilberto De Nucci and Edson Antunes

GASTROINTESTINAL AND RENAL PHARMACOLOGY

1423 Resveratrol-induced inactivation of human gastric adenocarcinoma cells through a protein kinase C-mediated mechanism

Mary Jo Atten, Bashar M. Attar, Thomas Milson and Oksana Holian

1 DECEMBER 2001

Commentary

1433 Dual inhibitors of cyclooxygenase and 5-lipoxygenase. A new avenue in anti-inflammatory therapy?

Stefano Fiorucci, Rosaria Meli, Mariarosaria Bucci and Giuseppe Cirino

MOLECULAR AND CELLULAR PHARMACOLOGY

1439 Induction of G_2/M phase arrest and apoptosis by a new synthetic anti-cancer agent, DW2282, in promyelocytic leukemia (HL-60) cells

Wenhua Piao, Jeman Yoo, Dug Keun Lee, Hyun Jin Hwang and Jeong Hee Kim

1449 Suppression of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD)-mediated *CYP1A1* and *CYP1B1* induction by 12-O-tetradecanoylphorbol-13-acetate: role of transforming growth factor β and mitogen-activated protein kinases

Meng Guo, Aby Joiakim, David T. Dudley and John J. Reiners, Jr.

1459 Positive modulation by Ras of interleukin-1 β-mediated nitric oxide generation in insulin-secreting clonal β (HIT-T15) cells

Marie Tannous, Rajesh Amin, Michel R. Popoff, Carla Fiorentini and Anjaneyulu Kowluru

CHEMOTHERAPY AND METABOLIC INHIBITORS

1469 Accompanying protein alterations in malignant cells with a microtubule-polymerizing drug-resistance phenotype and a primary resistance mechanism

Marianne S. Poruchynsky, Paraskevi Giannakakou, Yvona Ward, J. Chloe Bulinski, William G. Telford, Robert W. Robey and Tito Fojo

NEUROSCIENCE

1481 Reduction in serotonin synthesis following acute and chronic treatments with paroxetine, a selective serotonin reuptake inhibitor, in rat brain: An autoradiographic study with α-[^{14}C]methyl-L-tryptophan

Fumitaka Yamane, Hidehiko Okazawa, Pierre Blier and Mirko Diksic

1491 Enhancing effect of zinc on astroglial and cerebral endothelial histamine uptake

Zsuzsanna Huszti, Atilla Horváth-Sziklai, Béla Noszál, Emília Madarász and Anna Maria Deli

HORMONES AND GROWTH FACTORS

1501 Retinoid X receptor agonist elevation of serum triglycerides in rats by potentiation of retinoic acid receptor agonist induction or by action as single agents

Andrew M. Standeven, Scott M. Thacher, Yang-Dar Yuan, Maria Escobar, Vidyasagar Vuligonda, Richard L. Beard and Roshantha A.S. Chandraratna

GENE EXPRESSION AND DEVELOPMENT

1511 Expression of rat aldehyde reductase AKR7A1: influence of age and sex and tissue-specific inducibility

Anne Grant, Louise Staffas, Louise Mancowiz, Vincent P. Kelly, Margaret M. Manson, Joseph W. DePierre, John D. Hayes and Elizabeth M. Ellis

STRUCTURAL BIOLOGY

1521 Inhibitory properties of the anti-bothropic complex from *Didelphis albiventris* serum on toxic and pharmacological actions of metalloproteases and myotoxins from *Bothrops asper* venom

Edilson P. Trento, Omar S. Garcia, Alexandra Rucavado, Suzelei C. França, Claudemir Batalini, Eliane C. Arantes, José R. Giglio and Andreimar M. Soares

INFLAMMATION AND IMMUNOPHARMACOLOGY

1531 Synthesis and pharmacological activity of a novel water-soluble hepatocyte-specific polymeric prodrug of prostaglandin E_1 using lactosylated poly(L-glutamic hydrazide) as a carrier

Ken Akamatsu, Yasuomi Yamasaki, Makiya Nishikawa, Yoshinobu Takakura and Mitsuru Hashida

1537 Effects of nitric oxide and hydrogen peroxide on histamine release from RBL-2H3 cells
Beatrice Y.C. Wan, Kheng H. Peh, Michael Ho and El-Sayed K. Assem

CARDIOVASCULAR AND PULMONARY PHARMACOLOGY

1545 Effect of atorvastatin, simvastatin, and lovastatin on the metabolism of cholesterol and triacylglycerides in HepG2 cells
Hubert Scharnagl, Renana Schinker, Hedi Gierens, Markus Nauck, Heinrich Wieland and Winfried März

15 DECEMBER 2001

Commentary

1557 Reproductive toxicology: current and future directions
Patricia B. Hoyer

MOLECULAR AND CELLULAR PHARMACOLOGY

1565 *In vivo* up-regulation of aryl hydrocarbon receptor expression by 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) in a dioxin-resistant rat model
Monique-Andrée Franc, Raimo Pohjanvirta, Jouko Tuomisto and Allan B. Okey

1579 Iron complexes of deferiprone and dietary plant catechols as cytoprotective superoxide radical scavengers
Majid Y. Moridani and Peter J. O'Brien

1587 Activation of peroxisome proliferator-activated receptor isoforms and inhibition of prostaglandin H_2 synthases by ibuprofen, naproxen, and indomethacin
Maisa S. Jaradat, Buanus Wongsud, Srichan Phornchirasilp, Shamina M. Rangwala, Gamal Shams, Melissa Sutton, Karl M. Romstedt, Daniel J. Noonan and Dennis R. Feller

1597 Contributory role for nornicotine in nicotine neuropharmacology: nornicotine-evoked [^{3}H] dopamine overflow from rat nucleus accumbens slices
Thomas A. Green, Peter A. Crooks, Michael T. Bardo and Linda P. Dwoskin

1605 Potentiation of cyclic AMP and cyclic GMP accumulation by p38 mitogen-activated protein kinase (p38MAPK) inhibitors in rat pinealocytes
Anthony K. Ho, Luke Price, Martina Mackova and Constance L. Chik

1613 3,5-Di-*t*-butyl-4-hydroxyanisole (DTBHA) activation of rat skeletal muscle sarcoplasmic reticulum Ca^{2+}-ATPase
Fabio Fusi, Virginia Tzankova, Massimo Valoti, Federica Pessina and Giampietro Sgaragli

1621 Effect of xanthine oxidase-catalyzed reactive oxygen species generation on secretagogue-evoked calcium mobilization in mouse pancreatic acinar cells
Antonio González-Mateos, Pedro J. Camello, Ginés M. Salido and José A. Pariente

1629 Cooperation of chloroquine and blood platelets in inhibition of polymorphonuclear leukocyte chemiluminescence
Viera Jancinová, Rado Nosál, Katarína Drábiková and Edita Danihelová

1637 Effect of S(−) perillic acid on protein prenylation and arterial smooth muscle cell proliferation
Nicola Ferri, Lorenzo Arnaboldi, Augusto Orlandi, Kohei Yokoyama, Renè Gree, Agnese Granata, Ali Hachem, Rodolfo Paoletti, Michael H. Gelb and Alberto Corsini

1647 Inhibition of protein kinase D by resveratrol
Robert S. Haworth and Metin Avkiran

CHEMOTHERAPY AND METABOLIC INHIBITORS

1653 Protective effects of baicalein and wogonin against benzo[*a*]pyrene- and aflatoxin B_1-induced genotoxicities
Yune-Fang Ueng, Chi-Chuo Shyu, Tsung-Yun Liu, Yoshimitsu Oda, Yun-Lian Lin, Jyh-Fei Liao and Chieh-Fu Chen

1661 Analysis of two matrix metalloproteinase inhibitors and their metabolites for induction of phospholipidosis in rat and human hepatocytes
Rebecca J. Gum, Dean Hickman, Jane A. Fagerland, Matthew A. Heindel, Gerard D. Gagne, James M. Schmidt, Michael R. Michaelides, Steven K. Davidsen and Roger G. Ulrich

1675 The anticancer agent ellipticine on activation by cytochrome P450 forms covalent DNA adducts
Marie Stiborová, Christian A. Bieler, Manfred Wiessler and Eva Frei

HORMONES AND GROWTH FACTORS

1685 Desensitization of insulin secretory response to imidazolines, tolbutamide, and quinine I. Secretory and morphological studies
Ingo Rustenbeck, Monika Winkler and Anne Jörns

1695 Desensitization of insulin secretory response to imidazolines, tolbutamide, and quinine II. Electrophysiological and fluorometric studies

Ingo Rustenbeck, Corinna Dickel and Thomas Grimmsmann

1705 Tissue- and time-dependent effects of endothelin-1 on insulin-stimulated glucose uptake

Iskandar Idris, Divina Patiag, Samuel Gray and Richard Donnelly

INFLAMMATION AND IMMUNOPHARMACOLOGY

1709 Role of cytokines in the lipopolysaccharide-evoked depression of cytochrome P450 in the brain and liver

Tara E. Nicholson and Kenneth W. Renton

1719 Effects of glucocorticoids on activation of c-jun N-terminal, extracellular signal-regulated, and p38 MAP kinases in human pulmonary endothelial cells

Girolamo Pelaia, Giovanni Cuda, Alessandro Vatrella, Rosa Daniela Grembiale, Giovanbattista De Sarro, Rosario Maselli, Francesco Saviero Costanzo, Vittorio Enrico Avvedimento, Domenicantonio Rotiroti and Serafino Antonio Marsico